

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of ORF9B [1 - 73] SARS CoV2**

**Enzyme description:-** ORF9B [1 - 73]

**Clone number:-** DU 68498

**Source:-** Recombinant

**Expression system:-** *E. coli*

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 52, 255.52 daltons

Average Mass 52, 288.57 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 4.95

**Purity:-** 75 %

**Enzyme storage buffer:-**

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,  
0.1 % 2-mercaptoethanol, 0.03 % Brij-35

**Storage temperature:-** -70 °C

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## Clone Data Sheet

### ORF9B [1 – 73] SARS CoV2

**Protein** ORF9B [1 - 73]

**Clone number** DU 68493

**Accession number** MN908947.3

**Tags** N-terminal MBP

**Bacterially  
expressed protein**

MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENKDYDIK  
DVGVDNAGAKAGLTFLVDLIKNKHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYYEELVKD  
PRIAATMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGDGDDDKVPEFLEVLFGQPLGSML  
**QSCYNFLKEQHCQKASTQKGAEEAVKPLLVPHHVATVQEIQLQA**  
**AVGELLLLLEWLAMAVMLLLLCCCLTD**

**Native sequence** Amino acids M1 – D73 (end).  
Residue M404 of the fusion protein is equivalent to M1 of the  
native enzyme. The MBP tag is located at residues 1 – 367.

**Protease cleavage** Enterokinase (DDDDK) residues 384 – 388  
PreScission (LEVLFQGP) residues 393 – 400